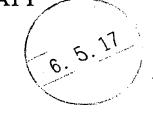
PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)



Applicant's or agent's file reference S-30	FOR FURTHER ACT	TION	See Form PCT/IPEA/416	5			
International application No.	International filing date (date	ay/month/year)	Priority date (day/month	h/year)			
PCT/JP2005/011399	15.06.	2005	15.06.	2004			
International Patent Classification (IPC) of Int.Cl. F28F9/02 (2006.01), F.			2006.01), F28F21	/08(2006.01)			
Applicant		***					
SHOWA DENKO K.K.							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of3 sheets, including this cover sheet.							
	3. This report is also accompanied by ANNEXES, comprising:						
a. a total of	sheets, as follows:						
	ntaining rectifications aut		een amended and are the bority (see Rule 70.16 and S				
	•	which this Authority	considers contain an ame	endment that goes			
			as indicated in item 4 of I				
Supplemental Bo		,		٠.			
b. 🔲 a total of (indicate type a				,			
			form only, as indicated in	the Supplemental			
	e Listing (see Section 80	· · · · · · · · · · · · · · · · · · ·	e instructions).				
This report contains indications re	lating to the following ite	ems:					
Box No. I Basis of the	report						
Box No. II Priority							
Box No. III Non-establis	shment of opinion with re	egard to novelty, inves	ntive step and industrial ap	oplicability			
Box No. IV Lack of unit	y of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain doct	iments cited						
Box No. VII Certain defe	ects in the international ap	plication					
Box No. VIII Certain obse	ervations on the internation	onal application					
Date of submission of the demand		Date of completion of	of this report				
28.11.2005			02.05.2006				
Name and mailing address of the IPEA/JP		Authorized officer		3M 9029			
Japan Patent Office		Shogo Tatai					
3-4-3, Kasumigaseki, Chiyoda-ku, Toky	Telephone No. +81-3-3581-1101 Ext. 3377						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/011399

Box No.	I Basis of the report		
1. Wit	th regard to the language, this report is based on:		
E	the international application in the language in w	hich it was filed	
	a translation of the international application	n into	, which is the language of a
	translation furnished for the purposes of:		_ ,
	international search (Rules 12.3(a) and 23.	l(b))	
:	publication of the international application	(Rule 12.4(a))	
	international preliminary examination (Rul	les 55.2(a) and/or 55.3(a))	
1	h regard to the elements of the international ap		
1	nished to the receiving Office in response to an inv lare not annexed to this report):	Manon under Afficie 14 are referred to in	this report as "originally filed"
	- · ·		
	the international application as originally filed	/furnished	
	the description:		
	pages		as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
	the claims:		
	Nos.	•	as originally filed/furnished
	Nos.*	as amended (together with	any statement) under Article 19
	Nos.*	received by this Authority on	,
	Nos.*	received by this Authority on	
	the drawings:		,
shee	ets/figs		as originally filed/furnished
shee	ets/figs *	received by this Authority on	
shee	ets/figs *	received by this Authority on	
·			
	a sequence listing and/or any related table(s) -	see Supplemental Box Relating to Seque	ence Listing.
3.	The amendments have resulted in the cancellat	non of:	
	the description, pages		
	the claims, Nos.		
	the drawings, sheets/figs		-
	the sequence listing (specify):		
	any table(s) related to sequence listing	(specify):	
4. 🗀	This report has been established as if (some of made, since they have been considered to go (Rule 70.2(c)).) the amendments annexed to this report	and listed below had not been
	the description, pages		
	The claims Nos		•
	the drawings sheets/figs		·
	the sequence listing (specify)		
	any table(s) related to sequence listing ((specify):	
* If item	4 applies, some or all of those sheets may be man.		
11 ILEM	- applies, some of all of mose sneets may be mar.	Ked Superseded.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/011399

citations and evaluate	tions support	35(2) with regaring such stateme	d to novelty, i	nventive step or ind	lustr ial applicat	oility;
Statement	ions support	mg such stateme	ац.			
Novelty (N)	Claims Claims	1-11				YES NO
Inventive step (IS)	Claims Claims	1-11				YES
Industrial applicability (IA)	Claims	1-11				YES
Citations and explanations(Rule 70) 1:JP 2004-3810 A (Denso K.K.) 2002:JP 2004-53132 A (Denso K.K.) 2004-53132 A (Denso K.K.)	04.01.08, para					
he subject matters of claim 1-11 do no						
skilled person in the art would east omprising a tube connecting plate 172			ing plurality of	drain guides 4c in	D2 to the heat	exchange
foreover, an outwardly protruding rib			n among a skille	ed person in the art.		
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